Installation & Operating Manual

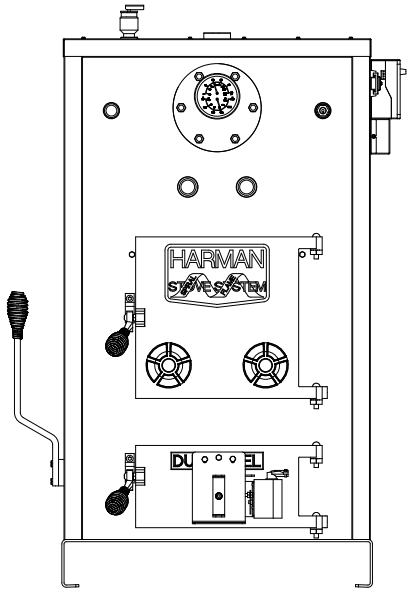
INSTALLER: Leave this manual with party responsible for use and operation.
OWNER: Retain this manual for future reference.
Call your dealer for questions on Installation, Operation, or Service.

***NOTICE: DO NOT** discard this manual!*

LEGACY STOVES™

Model(s):

Trident Boilers: SF160 & SF260



"Ce manuel est disponible en Français sur demande"

⚠ WARNING

Please read this entire manual before installation and/or use your new boiler.

Failure to follow these instructions could result in property damage, bodily injury or even death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Do not overfire - If any external part starts to glow, you are overfiring. Reduce feed rate. Overfiring will void your warranty.
- Comply with all minimum clearances to combustibles as specified. Failure to comply may cause house fire.

⚠ Safety Notice

IF THIS AHS BOILER IS NOT PROPERLY INSTALLED, A HOUSE FIRE MAY RESULT. FOR YOUR SAFETY, FOLLOW INSTALLATION DIRECTIONS.

⚠ CAUTION

Tested and approved for solid-fuel only (wood, coal). Burning of any other type of fuel voids your warranty.

⚠ CAUTION

Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Contact local building or fire officials about restrictions and installation inspection requirements in your area.

SAFETY NOTICE

PLEASE READ THIS ENTIRE MANUAL BEFORE YOU INSTALL AND/OR USE YOUR NEW BOILER. FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN PROPERTY DAMAGE, BODILY INJURY, OR EVEN DEATH.

IF THIS AHS BOILER IS NOT PROPERLY INSTALLED, A HOUSE FIRE MAY RESULT. FOR YOUR SAFETY, FOLLOW INSTALLATION DIRECTIONS.
CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN YOUR AREA.

CONTACT YOUR LOCAL AUTHORITY (SUCH AS MUNICIPAL BUILDING DEPARTMENT, FIRE DEPARTMENT, FIRE PREVENTION BUREAU, ETC.) TO DETERMINE THE NEED FOR A PERMIT.

SAVE THESE INSTRUCTIONS

3-90-70742R13_10/13 Rev 140912

Introduction

Congratulations,

You have just purchased the finest wood / coal boiler available. Legacy Stoves$_{TM}$ Trident boilers are constructed of high quality materials and are manufactured by a highly skilled team of assemblymen. Each boiler is inspected and pressure tested for quality assurance.

This manual is designed to provide all of the basic information needed for a safe and proper installation. However, there are many skills needed that can not be learned by reading this manual. Legacy Stoves$_{TM}$ recommends that the installation be performed by a plumbing and heating expert.

The Legacy Stoves$_{TM}$ Trident Boilers are designed to operate safe, easy and automatically. You may however, need to learn a few basic skills to maintain a fire, especially if this is your first venture into solid fuel burning. If you have any problems, re-read these instructions. If you can not resolve the issue(s), Contact your Legacy Stoves$_{TM}$ dealer.

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➔ **= Contains updated information**

Legacy Stoves$_{TM}$ Central Heating Appliances are built and tested to be complete Home Heating solutions. As with any Central Heat system, a backup heating system may be required in the event of power outages or during appliance service or maintenance.

Packing List

Items needed for assembly and installation.

Please notify your Legacy Stoves$_{TM}$ Dealer if you are missing any items.

Included with Boiler:
--Shaker Handle
--Ash Pan
--Warranty Registration Form

Items In Boiler Kit # 1-00-01020: (Sold Separately)
--Johnson Controls Aquastat - (3) pieces; A350 Controller w/ Sensor wire
S350 Stage Module
Y350 Power Supply

--Immersion Well
--Din Rail and (2) End Clamps
--Terminal Box
--Terminal Block and (2) #8-32 nuts
--Pressure Relief Valve (30 psi.)
--Temperature / Pressure Gauge
--Automatic Draft Control Assembly
--(1 pc.) Flex Conduit w/ (2) 90° Fittings w/ nuts, and (3) Chase Nipples w/ nuts
--(2) Manual Draft Control Knob Assembly
--(3) Brass Coil Spring Handle

Appliance Certification.

Model: Trident Series Boiler - SF160 & SF260.

Test Lab: Omni-Test Laboratories, Inc.

Report #: 135-S-05-4

Type: Solid Fuel (Wood, Coal) Fired Appliance for Residential Use

Standard(s): CAN/CSA B366.1-M87, and applicable sections of UL 834 and ETLM 78.1

Note: This appliance is also approved for installation into a shop.

Notice:
The Aquastat controls supplied with the Boiler Kit are designed only to maintain water temperature within the boiler. The actual heating system is controlled separately by your thermostat(s) opening zone valves or energizing circulation pump(s).

Do not attach a thermostat to the supplied controls.

Installation

Getting Started

The sheet metal sides and top are easily removed to reduce the chance of dents and/or scratches in the finish. Simply lift the top off, and that will allow the sides to be pulled away and up, for removal. To re-install, slide the channel, at the bottom of each side piece, over the lip at the bottom of the boiler, and hold downward while moving the side panel into place. Then slide the top down over the sides.

NOTE: The sheet metal top holds the sides in place, thus, no bolts or screws are needed.

⚠ CAUTION

BOILER SHOULD NOT BE INSTALLED CLOSER THAN 18 INCHES (457 MM) TO ANY COMBUSTIBLE MATERIAL

Locating Boiler

Place the boiler as close to the chimney as possible, while still maintaining the above mentioned clearances. Bolt the shaker handle on to the block on the side of the boiler, using the (2) 5/16 X 3/4 in. bolts and lock-washers.

Assembly

Install the Temperature/Pressure Gauge into the pipe stub in the center of the round plate on the front of the boiler (Fig. 1)

Install the A350 sensor wire all the way into the immersion well and screw the well into one of the top hole

Turn the pressure relief valve into the stub on top of the boiler, next to the supply outlet fitting.

NOTE: Use Teflon tape to seal the threads on all fittings. Any unused fittings must be plugged

Bolt the two manual draft controls through the holes in the top load door. (Fig. 2) The draft control knob should spin freely and open to a distance of approximately 3/8 in. from the door surface, while being able to close against the door surface.

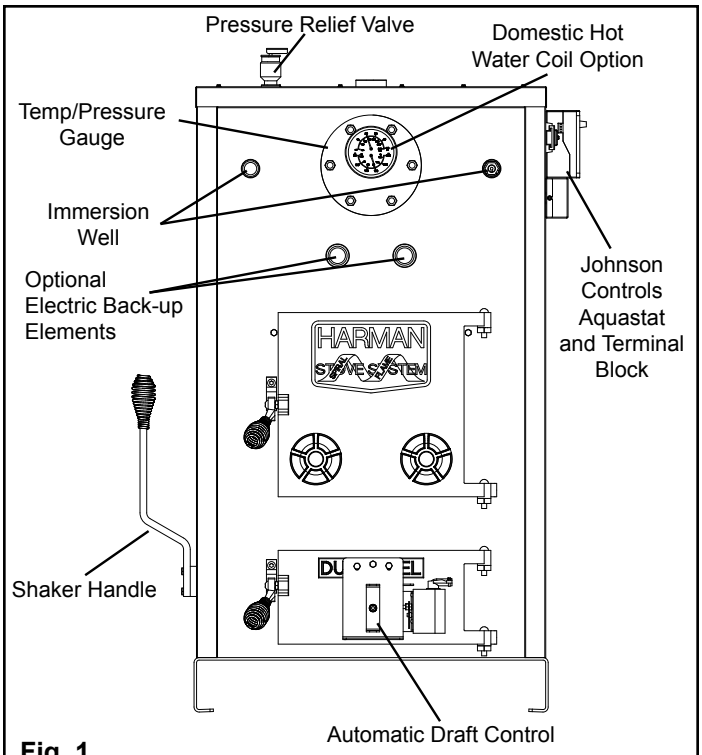


Fig. 1

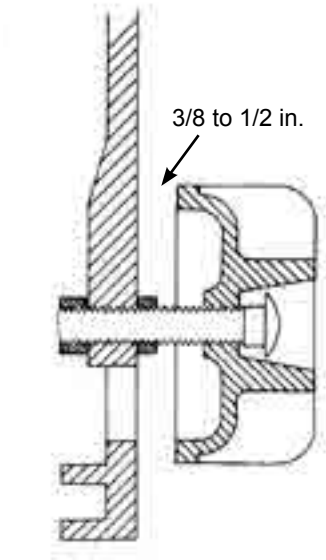


Fig. 2

Installation

Bolt the Automatic Draft Control through the 1/2 in. hole in the center of the bottom door. Be sure to hold the Draft Control straight while tightening. Feed the two wires from the draft motor through the flexible conduit and a 90˚ fitting. Secure the fitting to the draft motor and that end of the conduit at this time. Check the flapper door on the Automatic Draft Control assuring that it moves freely.

Install the (3) brass coil spring handles onto the door latches and the shaker handle. Start the spring handle onto the shaft and twist it counter-clockwise while pushing.

Aquastat Installation

(See optional items, page 7) Lay the din rail on a flat surface, with the flat side down. Secure one end clamp, on the left side. Slide the A350 controller onto the rail from right to left until it is against the end clamp. Slide the Y350 onto the rail and guide the plug-in connector, joining it to the A350. Next, install the S350, again, guiding the plug-in connector carefully. Install the other end clamp to the right side of the din rail. Remove the covers from all three controls by loosening four screws each. Install the terminal box to the controls using (3) chase nipples and locknuts, supplied with the kit. Using the four holes in the terminal box, mount the terminal box and controls to the boiler sheet metal side as shown in Fig. 1. Using (2) #8-32 nuts, install the terminal block onto the studs located inside the terminal box.

Wiring Diagram

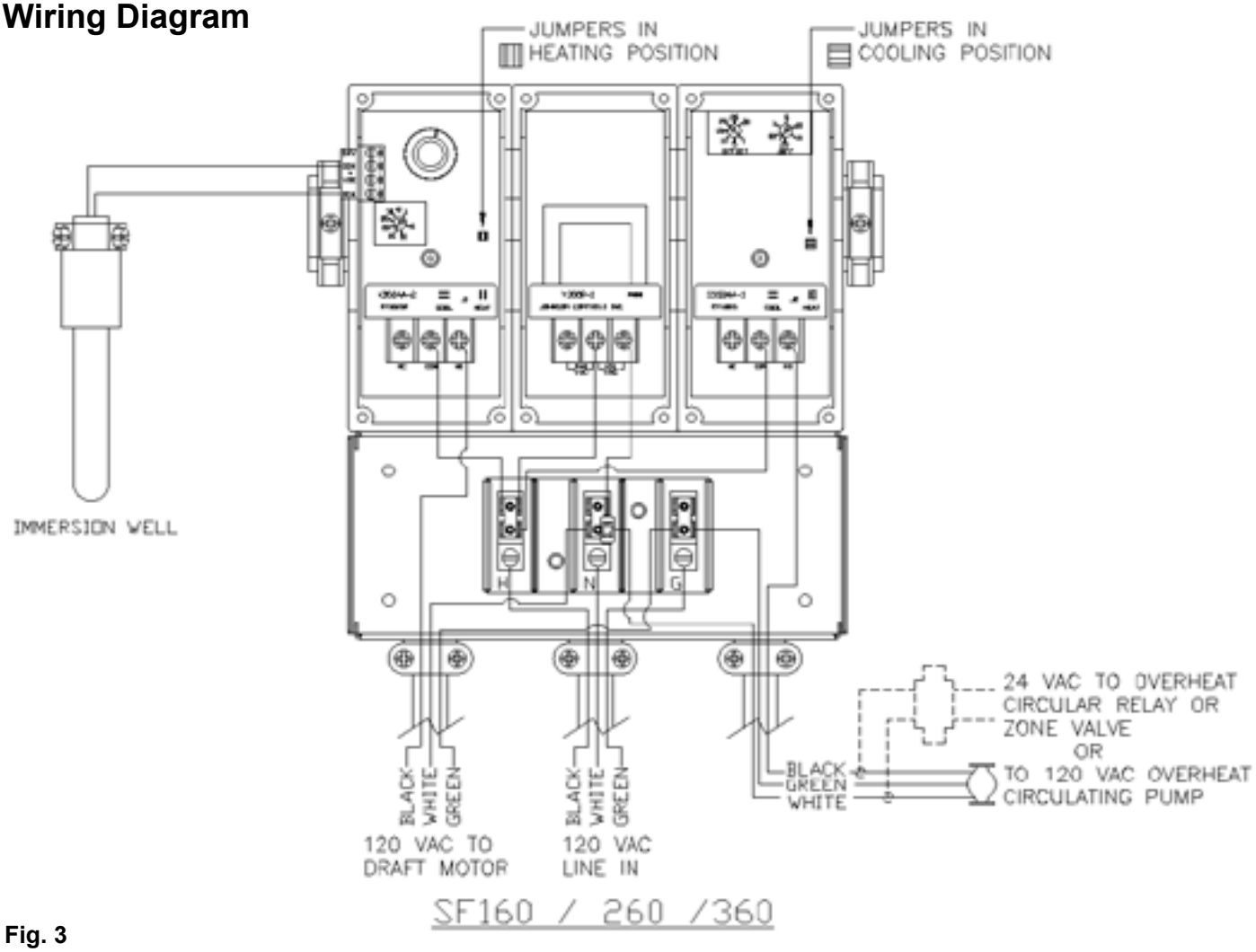


Fig. 3

Installation

Wiring and Electrical

Following the wiring diagram, run all wires to their designated connections. Save the main power for the last hook-up, and leave the breaker in the off position. The sensor wires attach to the A350 Controller on the terminals marked “sen” and “com”. Make sure the sensor is submerged fully into the well and secured with the set-screws.

Setting The Aquastat

Inside the A350 control, you will see a square jumper, and a differential dial. Be sure the jumper is in the “Heating” position. The differential dial is set to determine how low, below the temperature set point, you want the water temperature to go before the Automatic Draft Control opens. A good initial setting for this dial is 5°. Be sure the 120V wires are attached to the common and the normally open terminals, and replace the cover. The external dial is set for the water temperature you wish to maintain, a good setting is 180°.

Inside the Y350 control, ensure that your wires are connected to the 120VAC terminals, and replace the cover.

Inside the S350 control, which is used as overheat protection, you’ll see two dials; offset, and differential. There is also a jumper which, in this case, gets placed in the “cooling” position. The offset dial sets the number of degrees above the A350 set point that you want the overheat dump to activate. A good set point would be 20°. That would mean that if the water reaches 200°, using the A350 set point of 180°, the S350 would close it’s contacts and energize the overheat dump zone. The differential dial sets the point that the overheat dump would stop. With the differential set at 15°, using the temperatures above, the circuit would re-open, stopping the overheat dump at a water temperature of 185°. The 120V wiring is attached on the normally open and the common position. The normally closed position is not used.

Re-install the covers onto the three Controls.

Optional Items

There is a domestic hot water coil available for your Trident Boiler. The coil installs in the front of the boiler, and allows your domestic water to be heated by the heating system water. Install the coil now, by removing the round plate and replacing it with the coil and it’s round plate. Be sure to tighten the bolts evenly, to ensure a good seal.

If electric back-up is desired, install now. There will be two additional control boxes to add to your Aquastat, which will require the use of a longer din rail. The two heating elements will install into the front of the boiler as shown in Fig. 1

Fig. 4

Venting

The Legacy Trident Boiler must be installed into a chimney approved for solid fuel burning appliances. In the U.S., the boiler must be connected to; (1) a prefabricated chimney complying with the requirements for Type HT chimneys in the Standard for Chimneys, Factory Built, Residential Type and Building Heating Appliances, UL 103. Or; (2) a code approved masonry chimney with a flue liner. In Canada, with prefabricated chimney systems tested and listed to the High Temperature Chimney Standard ULC S-629, or with a code approved masonry chimney. The minimum recommended height for any chimney is 16 ft. (4.8m) above the flue collar. Do not reduce flue diameter. Nominal size flue is 8 X 8 in. or equivalent, up to 8 X 12 in. Codes also require that the chimney must extend a minimum of

3 feet (0.9m) above the point at which they exit from the roof, it must also extend 2 feet (0.6m) above the highest point within a 10 ft. (3m) radius.

DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE THAT IS SERVING ANOTHER APPLIANCE.

NOTE: The restriction of not venting more than one appliance to the same flue applies to the *U.S.* specifically. In *Canada,* CSA B365-01 allows it, with specific restrictions. Be sure to contact your building code inspection official to see if this option is allowed in your area, and to find out the specific requirements for such an installation.

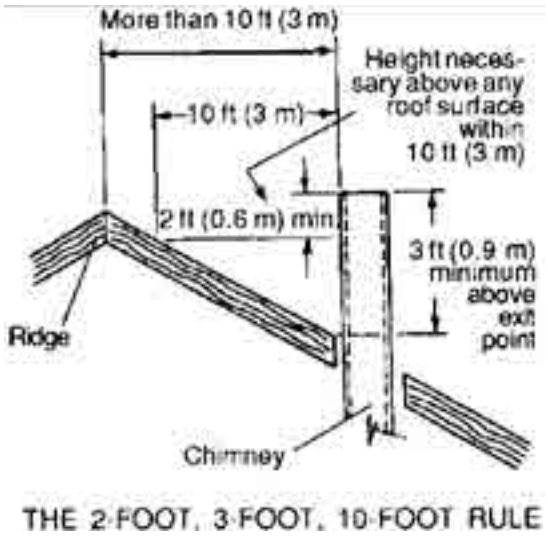

More than 10 ft (3 m)
Height necessary above any roof surface within 10 ft (3 m)
10 ft (3 m)
2 ft (0.6 m) min.
3 ft (0.9 m) minimum above exit point
Ridge
Chimney
THE 2-FOOT, 3-FOOT, 10-FOOT RULE

Fig. 5

Limit connector pipe to 8 ft. or less, with no more than two elbows. All horizontal sections should have 1/4 in. rise per foot. The chimney must be capable of providing a draft reading of at least .06 in. of water column. A barometric damper can be installed to prevent excessive and erratic draft. All connector pipe should be secured with sheet metal screws at each joint.

Notice:

The Aquastat controls supplied with the Trident Boiler are designed only to maintain water temperature within the boiler. The actual heating system is controlled separately by your thermostat(s) opening zone valves or energizing circulation pump(s).

Do not attach a thermostat to the supplied controls.

Plumbing

The Legacy Trident Boiler can be used as a “Stand Alone” boiler or as an add-on to an existing hot water heating system.

The diagrams in this manual are meant to show the necessary equipment and piping. Your system may look very different. However, if configured properly, the same results will be achieved.

Fig. 6 shows a typical plumbing diagram for tying into an existing system. This method provides water circulation between the two boilers with a circulating pump. In this setup, the domestic water coil in the existing boiler will be heated, making it unnecessary to install a water coil in the Trident Boiler.

Tying-in to an existing boiler must be done in the return line between the circulator and the existing boiler. Run a pipe from there to a small circulator, and then into the 1-1/4 in. fitting on the rear of the Trident Boiler. Next run a pipe from the 1-1/4 in. fitting on the top of the Trident Boiler to a Tee fitting in the supply line of the existing boiler. This Tee fitting must be installed between the existing boiler and the Flow Control Valve, as shown in Fig. 6. An air valve should be installed on this line.

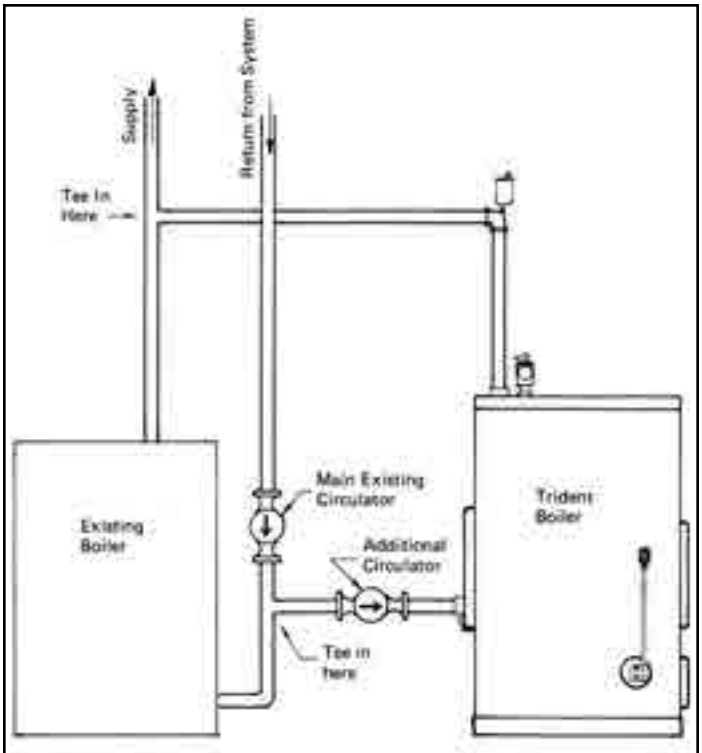


Fig. 6

Installation

The circulator installed between the two boilers may be hooked up to run continuously during the heating season or, an additional S350 control (not supplied) could be installed to turn it on and off automatically. This control must be used as a “close on rise of temperature” (jumper in cooling position).

Legacy Stoves$_{TM}$ recommends that 1-1/4 in. pipe be used between the two boilers. Also recommended is that the first section of pipe off of the top of the Trident Boiler be threaded galvanized or threaded black-steel pipe.

The Legacy Trident Boiler is supplied with a dual function Aquastat. The A350 is used to control the automatic draft control whether open, to increase heat, or closed, to decrease heat. The S350 is used as overheat protection. Since a wood or coal fire is still producing heat when the draft is closed, this overheat protection is required. You could have the S350 energize a circulating pump or a zone valve separate from the heating system, or it could be hooked up so that it flows the heated water throughout the system. Either way, it must be able to flow away from the boiler.

Figure 7 shows a typical schematic of the Trident boiler as a “stand alone” system. Note; the crossover pipe (#12) is not totally necessary but is recommended to provide circulation within the boiler while the heating system is satisfied. This will ensure an even temperature within the boiler. The tempering valve shown (#10) is to prevent excessive temperature of the domestic water.

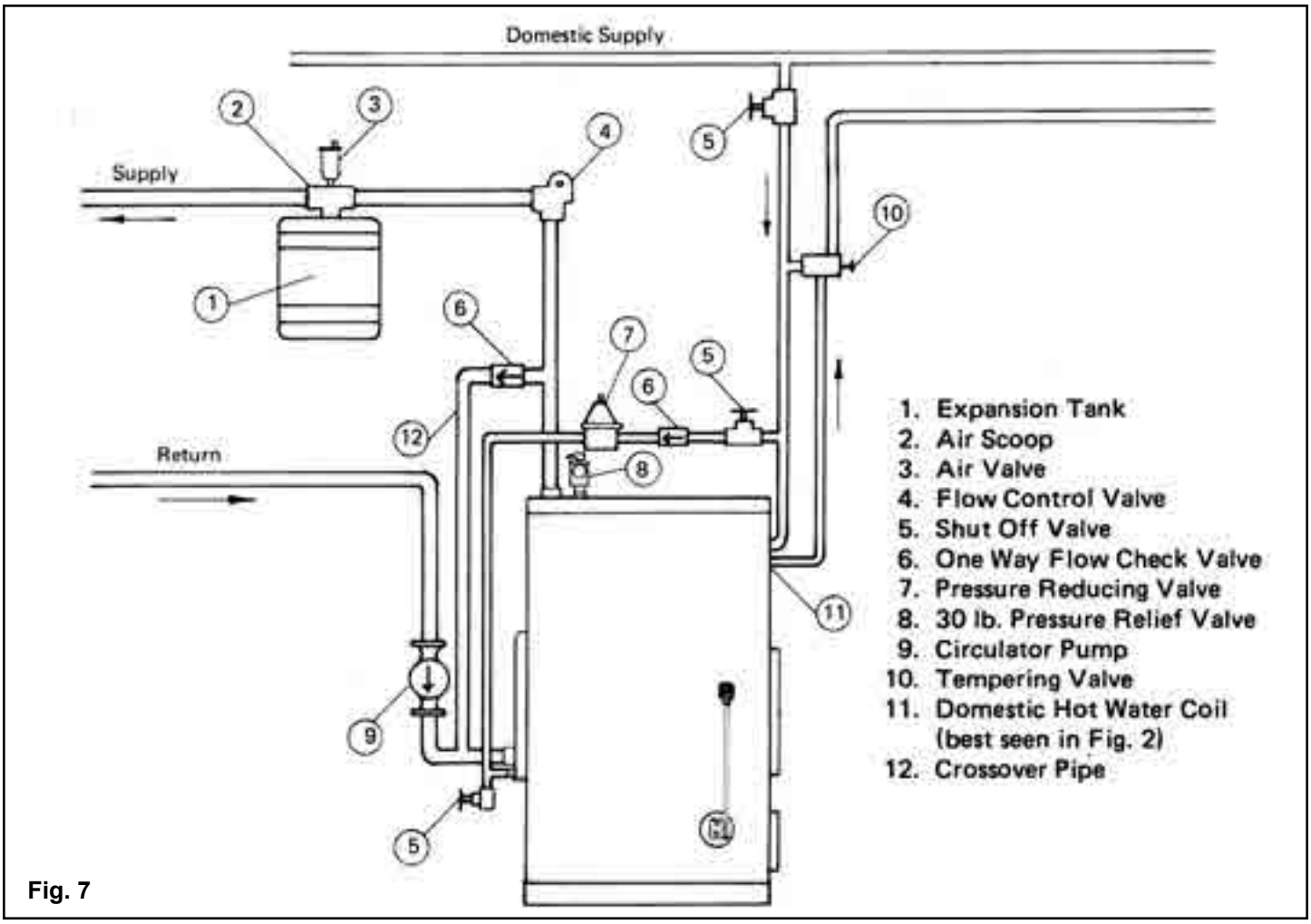


Fig. 7

Operation

Automatic Draft Control

The heat output is regulated by the automatic draft control on the bottom door. The electric motor (A) opens and closes the flapper door (B). Opening and closing the flapper door regulates the air flow into the firebox.

The maximum air flow can be adjusted by turning the adjusting bolt (C). Turn counter-clockwise for more air, and clockwise for less air. Adjust this bolt only while the flapper door is in the closed position. Otherwise, motor damage could occur.

The idle air adjuster (D) controls the minimum amount of air that enters the firebox. Adjustment is made by turning the adjuster vertical for zero idle air, or horizontal for maximum idle air. It is best to start out with a medium setting as shown in Figure 9.

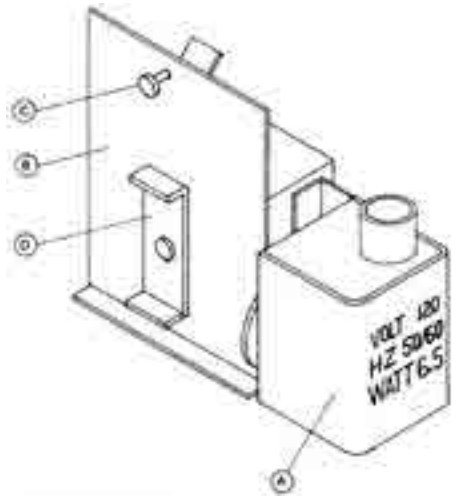


Fig. 8

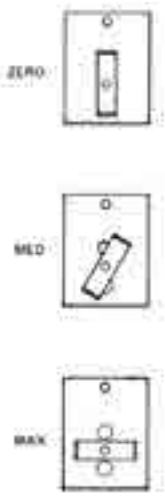


Fig. 9

Starting a Wood Fire

Make sure the boiler and all piping is full of water and that all air has been purged from the system.

Never start a fire without water in the system. An explosion will occur.

Turn on electrical power to the boiler. This should cause the automatic draft control to open.

Open the ash pan door to allow free air movement. With the firebox door open, crumble approximately 8 sheets of newspaper and place on the grates. Lay some small kindling on top of the newspaper. Be sure this kindling is dry and no more than 3/4 in. in diameter. Layer the kindling in a crisscross type pattern, to allow maximum air flow. Next lay some larger pieces of wood on top of the kindling (approximately 2 in. diameter). Using a match or lighter, light the paper just inside the door. Close and latch the firebox door and allow the fire to burn a few minutes. After about five minutes, close the ash pan door and re-open the firebox door an inch or two, to allow the smoke to clear. Add 4 or 5 larger logs (about 4 in. diameter) to the well established fire and close the firebox door. Leave the ash pan door open for about five minutes only. Now open the firebox door using the same method as before, always closing the ash pan door before opening the firebox door. Now you can load the firebox to the desired level. You may load wood to the top of the firebox. Close and latch the door. The ash pan door may again be opened to speed the ignition process.

Do not leave the boiler unattended with any door open.

After the wood is burning well, close the ash pan door. The automatic draft control will now regulate the fire, based on temperature demand.

The idle air adjuster must be tuned to where the fire doesn't go out during long periods with no demand. Experience will dictate the best setting for your installation. Normally, the two manual draft controls on the firebox door are kept closed while burning wood.

Operation

Starting a Coal Fire

Make sure the boiler and all piping is full of water and that all air has been purged from the system.

Never start a fire without water in the system. An explosion will occur.

Turn on electrical power to the boiler. This should cause the automatic draft control to open.

Open the ash pan door to allow free air movement. Use the same procedure as starting a wood fire except, do not load the larger diameter wood Use wood about 2 in. diameter maximum. This size will form a very hot charcoal bed in less time. Again, the ash pan door may be opened periodically to speed the ignition process.

DO NOT LEAVE THE BOILER UNATTENDED WITH ANY DOOR OPEN.

When you have accumulated a substantial charcoal bed, start adding a thin layer of coal. Pea or Nut sized coal is better for starting than Stove coal.

When the first layer is burning with some blue flame, continue to add thin layers of coal until there is a solid bed of burning coal. Let each layer burn a blue flame before adding another layer. Additional coal can be layered in until the bed is approximately 10 inches deep. By now, you should have the ash pan door closed, and the automatic draft control will continue to regulate the fire.

The idle air adjuster may need to be set for slightly less air for coal than wood. Here again, experience will dictate the best setting. The maximum air bolt can be turned all the way “counter-clockwise” to allow for a quicker recovery. Never adjust this bolt with the flapper open.

The two manual draft controls, on the firebox door, are used to allow secondary air to pass over the fire when burning coal. This helps to burn the gasses that are emitted from the coal as it is heated. Your setting for these draft controls should be between 1/2 and 1 complete turn from closed. Adjust both controls equally.

Loading

Coal should never be added unless there is a reasonably hot fire. The coal bed should be bright and vigorous. If you have an active coal bed, full loads can be added at any time. If not, add new coal in layers, as described in starting a coal fire.

Shaking the Grates

Shaking should be done only when there is a well-established fire. The frequency of shaking will depend on the degree of burning. Twice a day shaking is recommended. The best results are achieved with short, choppy strokes as opposed to long, even strokes. Full rocking of the grates may allow burning coal to fall into the ash pan. The amount of shaking is critical, too much can disrupt the fire bed, and too little will restrict air-flow. The proper amount of shaking is normally achieved when hot red coals first start to drop through the grates into the ash pan.

Every effort should be made to not let a coal fire burn down too low. This will cause the reloading process to be much longer, with a real good chance of losing the fire altogether.

Do not shake or stir with a low fire. Open the ash pan door to get maximum air flowing into the firebox. Once burning is restored, close the ash pan door and add a layer of coal to the fire bed. Follow the instructions under Starting a Coal Fire. When the new coal is thoroughly ignited, and there is a substantial bed of hot coals, the grates may then be shaken.

Ashes and Ash Removal

Ashes should never be allowed to accumulate above the top of the ash pan. Ashes in contact with the bottom of the grates act as insulation, which intensifies the heat on the grates and causes them to sag or warp. Also, too much ash accumulation will restrict air-flow which will make fire maintenance more difficult. Place ashes in a sealed metal container, outside, until they are cooled enough for final disposal. Coal produces considerably more ash than wood, so the intervals between emptying are much shorter.

Operation

Safety Tips

When opening the firebox door, it should be cracked, slightly open, for a few seconds to allow air in to burn any gases which may be present. This will also allow smoke to be drawn away from the door. Whenever the ash pan door is open, it should be closed before opening the firebox door.

The firebox should never be filled with excessive coal to where the flue exit is blocked or impeded in any way.

Burning coal produces Carbon Monoxide. If the flue exit is blocked, the Carbon Monoxide can be forced out of the boiler, into the room, with possible FATAL consequences.

With the exception of start-up or freshening of the fire, or performing ash removal, the ash pan door should be kept closed.

Never install a Legacy Trident Boiler into a chimney with a history of down-drafts.

Keep Children Away - May Cause Serious Burns.

CAUTION: All surfaces of the boiler are hot. Do not touch. Keep children away. Serious burns will result if touched. This is a heat producing appliance.

DANGER: Fire Hazard, Do not use chemicals or flammable liquids to start or "freshen-up" a fire. Severe burns or a house fire may result. Do not burn Garbage, Gasoline, Thinners, Oil, Kerosene Etc. An explosion, a house fire or serious personal injury could result. Keep all such liquids well away from this boiler.

During the first few hours of burning, a blue smoke may be observed rising from the boiler. This is the paint going through the curing process. It is advisable to increase the amount of fresh air in the room during this break in period. This can be achieved by opening doors and windows. Don't be alarmed, this is normal and will only last a short while.

Chimney Problems

Not Enough Draft - Chimney is too low. The general rule for chimneys is 16 feet tall, and two feet higher than anything ten feet around it.

Air may be leaking in around a loose fitting clean-out door.

Too many elbows in connector pipe, or seams and joints of connector pipe are not secured properly.

Improperly sized chimney or stovepipe.

Chimney may be blocked with creosote or bird nests or similar obstructions.

Cracked or defective chimney flue or liner.

Down Drafts - Trees or other topographical barriers may impede on chimney performance causing air currents to be pushed downward into the flue. This can also be caused by neighboring buildings or other chimneys.

Creosote and condensation - If creosote or condensation runs out of the chimney or stove pipe, check the following; Chimney cap or liner may be defective, Boiler may be positioned too far away from the chimney which would not allow the chimney to warm, Wood being burned may be green or wet, Boiler may be over-sized for the residence causing it to be burned on low too often.

Excessive Draft - This can be controlled with a barometric damper in the stove pipe.

Maintenance

The spiral chamber is basically self-cleaning. However, if there is a draft problem and you have been burning wood for a long time with little demand, the spiral chamber will need to be cleaned. To clean the spiral chamber, remove the stovepipe and scrape any creosote or debris from the top and front of the chamber. The rear of the chamber should not have much accumulation. If it does, clean it out.

NOTE: 1/4” to 1/2” of creosote in the spiral chamber is normal.

The pipes inside the firebox will accumulate creosote if the demand for heat is too low when burning wood. 1/8” to 1/4” of creosote is normal on the pipes and firebox walls. If more creosote has accumulated, it should be scraped off of these surfaces.

NOTE: Creosote in the firebox can be burned off by burning coal for a few days.

The fire bricks may become cracked during the course of normal operation. A cracked brick that is still in place, is still doing its job, and need not be replaced immediately. If a brick is broken, and has fallen out of place, it should be replaced before any further burning occurs. The firebricks used in the Trident Boiler are available for replacement from your Legacy dealer.

Gaskets on the doors are there to regulate air to the firebox. If a gasket is failing, you’ll notice difficulty in controlling the fire. Inspect the gaskets regularly, and replace with Legacy Stoves$_{TM}$ supplied material only.

Specifications	SF-160	SF-260
Heating Capacity (Square Feet)	2200 Max.	3200 Max.
Approximate BTU per hour (wood or coal)	90,000	130,000
AMP Rating	40	40
Water Capacity (US Gallon)	25	32
Weight	640 Lbs	780 Lbs
Hydro-Pressure Tested	Yes	Yes
Firebox Dimensions (inches)	16W x 22L x 19H	18W x 26L x 20H
Recommended Log Length (inches)	19	23
Door Opening Size (inches)	11 x 13	13 x 13
Overall Dimensions (inches)	23W x 23.5L x 45H	26W x 27.5L x 45.5H
Flue Size (diameter)	6 inch	7 inch
Flue Height (top of flue)	37.5 inches	38.75 inches
Number Of Grates (10 Lbs. Each)	4	5
Type Of Fuel	Coal / Wood	Coal / Wood
Water Inlet and Outlet Size	1.25 NPT	1.25 NPT
Automatic Draft Control	Yes	Yes
Aquastat	Yes	Yes
Temperature / Pressure Gauge	Yes	Yes
ASME Pressure Relief Valve	Yes	Yes
Ash Pan With Handle	Yes	Yes
Domestic Hot Water Coil (optional)	4 GPM	4 GPM
Approximate BTU per hour (electric option)	30,000	30,000
Kilowatt Rating (electric option)	9	9

Warranty

AHS CENTRAL HEATING PRODUCTS LIMITED WARRANTY

Alternate Heating Systems, on behalf of its Legacy Stoves$_{TM}$ brand ("AHS"), extends the following warranty for all Harman® furnace and boiler products ("Products") that are purchased from an AHS authorized dealer.

Warranty Coverage: Subject to the conditions, exclusions and limitations set forth below, AHS warrants to the original owner of the Products, and to any transferee taking ownership of the Products at the site of original installation within two years following the date of original purchase, that the Products will operate free from defects in material and workmanship under normal conditions and use, as described in the operating instructions furnished with the Product, during the warranty period described below. AHS will, at its option, repair or replace any Product covered by this warranty that is determined to be defective in material or workmanship.

Warranty Period: The warranty period runs for six years, except for mechanical and electrical components, which are warranted for three years. The warranty period begins on the earlier of: (i) the date of invoice for the Product; (ii) in the case of new home construction, the date of first occupancy of the residence or six months after the date of sale of the Product by an AHS authorized dealer, whichever occurs first; or (iii) the date 24 months following the date of Product shipment from AHS, regardless of the invoice or occupancy date.

Warranty Conditions: This warranty applies only to Products: (i) installed, operated, and maintained as recommended in the Product user's manual; (ii) purchased through an AHS authorized dealer; (iii) while remaining at the site of original installation; and (iv) that have not been altered after leaving the factory.

How to File a Claim: Claims must be made within the warranty period to the dealer who sold the Product. If that dealer cannot provide the warranty service, contact the nearest AHS authorized dealer. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the Product. Travel and shipping charges for parts are not covered by this warranty.

Warranty Exclusions: This warranty does not cover the following: (1) consumable and normal wear items, including, without limitation, flame guides, grates, coal bars, afterburner hoods, fire brick, gaskets, paint, glass discoloration, burnpot housing weldments, burnpot grate weldments (pellet or corn), burnpot front plates (pellet or corn), burnpot front plate locks, corn auger extensions, ceramic inserts, and ceramic insert plates; (2) noise caused by minor expansion, contraction or movement of parts; (3) damage resulting from: (i) failure to install, operate or maintain the Product according to the installation and operating instructions and listing agent identification label furnished with the Product; (ii) failure to install the Product according to local building codes; (iii) shipping or improper handling; (iv) abuse, misuse, continued operation with damaged, corroded or failed components, accident, or incorrectly performed repairs; (v) environmental conditions, inadequate ventilation, negative pressure or drafting caused by tightly sealed construction, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (vi) use of fuels other than those specified in the operating instructions; (vii) installation or use of components or accessories not supplied with the Product or authorized and approved in writing by AHS; (viii) modification of the product not expressly authorized and approved by AHS in writing; or (ix) interruptions or fluctuations of electrical power supply to the Product; (4) non-AHS components or accessories used in conjunction with the Product; (5) the Products' capability to heat a desired space; information is provided to assist the consumer and the dealer in selecting the proper Product for the application; consideration must be given to Product location and configuration, environmental conditions, insulation and air tightness of the structure; or (6) additional or unusual utility bills incurred due to any malfunction or defect in Products.

Limitations of Liability: Repair or replacement in accordance with the provisions of this warranty will be the owner's exclusive remedy for and will constitute AHS's sole obligation under this warranty, under any other warranty (express or implied), or in contract, tort or otherwise. No employee, agent, dealer, or other person is authorized to give any warranty on behalf of AHS. TO THE EXTENT ALLOWED BY LAW, AHS MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. AHS WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING OUT OF DEFECTS IN OR USE OF THE PRODUCTS. Some states do not allow exclusions or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific rights; you also may have other rights, which vary from state to state. The duration of any implied warranty is limited to the duration of the warranty period specified herein.

Notes

Notes

Service & Maintenance Log

Date Of Service	Performed By	Description Of Service

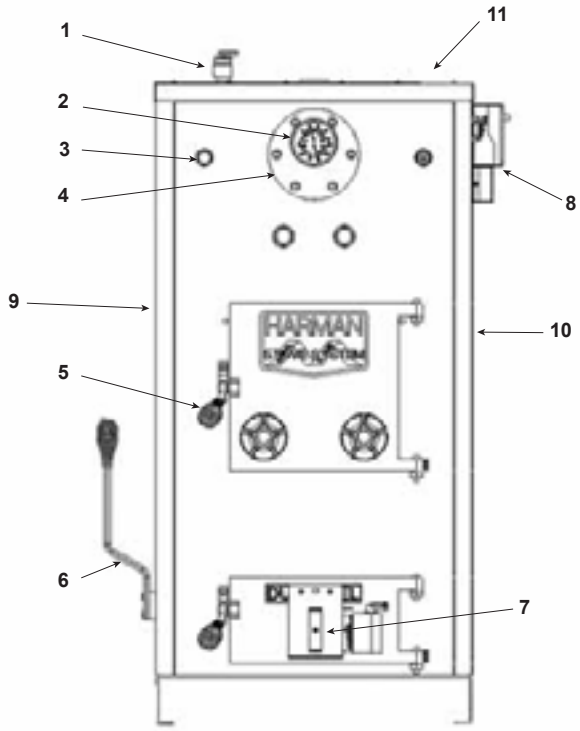
LEGACY STOVES™

Service Parts

SF160

Wood, Coal fired Boiler
1-70-03233

Beginning Manufacturing Date: N/A
Ending Manufacturing Date: Active



IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
1	Safety Relief Valve		3-10-77382	Y
2	Press/temp Gauge-Rear Mount		3-10-78427	Y
3	Aquastat Sensor Well	Post 1199	3-10-935111	Y
4	Stove Water Plate (6 holes, 1 fitting)		1-10-08024	
	Gasket, Boiler Plate		3-10-24758	Y
5	Door Handle - Cast	Qty 2 req	4-00-00042	Y
	Door Latch	4 Sets	1-00-00036	Y
	Load Door - Cast		4-00-00197P	Y
	Draft Control Knob - Cast	Qty 2 req	4-00-00109-1	
6	Long Shaker Handle Weldment		1-10-01005	Y
	Shaker Bar Weldment 4-1/4”		1-10-02017W	Y
	Shaker Block		2-00-01037-1	Y
	Shaker Bracket		2-00-01047B	
	Shaker Handle Mount		2-00-01037-2	Y
7	Automatic Draft Control Assembly		1-10-03375	Y
	Draft Motor 120v		3-20-45338	Y
	Draft Motor Mount Bracket		2-00-01010B	
	Ash Door - Cast		4-00-00200-1D	

Additional service parts on following page.

LEGACY STOVES™

Service Parts

SF160

Beginning Manufacturing Date: N/A
Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
8	Aquastat Replacement for White Rogers	Pre 1199	1-00-03500	Y
	Controller A350AA-2C	Post 1199	3-10-1350112	Y
	Aquastat Terminal block	Post 1199	1-10-03501A	
	Power Supply Y350R-1C	Post 1199	3-10-935071	Y
	Stage Module S350AA-1C	Post 1199	3-10-7350111	Y
9	Side Jacket w/Hole		2-00-00315-15S	
10	Side Jacket without Hole		2-00-04124-15S	
11	Jacket Top		2-00-08128-15S	
	ADC Cover		2-00-01012P	
	ADC Hinge		3-31-01004	
	Aquastat Sensor/A350 Control APPBC-25C	Post 1199	3-10-2992225	Y
	Ash Pan		1-10-16027	Y
	Boiler Coil Washer	Pkg of 2	1-00-07007	
	Boiler Electric Back-up for Johnson Controls	Post 1199	1-00-01019	
	Boiler Kit Assembly		1-00-01020	
	Brick 9” x 4-1/2” x 1-1/4” (6 needed)	Pkg of 7	1-00-900450125	Y
	Brick Angles	Pkg of 4	1-00-01138	
	Set of cut brick		1-00-08124	Y
	Brick, full skid	414 pcs	3-40-900450-414	
	Brick, 9” x 4 1/2” x 2 1/2”, (Used with reducer)		3-40-900450250	
	Din Rail, 8”, (for Mounting Controls)		3-31-01020	
	Din Rail End clamp		3-31-01021	
	Domestic Coil Assembly		1-00-07006	
	Domestic Coil Water Plate (8 holes, 1 fitting, 2 nuts)		1-10-07006	
	Door Pins 3/8 x 1 7/8	Qty 4 req	4-30-00138b	
	Element Cover (For Backup)		1-10-01008S	
	Gasket 1/2” Rope (Load Door & Ash Door)	20 Ft	1-00-53500	Y
	Gasket Glue, 32 oz		3-42-4583	
	Grate 13 in - Cast	Qty 4 req	3-00-00207	Y
	Grate Holder - Cast	Qty 4 req	3-00-00193	Y
	Grate Link - Cast		4-00-00205D	Y
	Non-electric Boiler Kit (includes regulator & draft control)		1-00-08012	
	Draft Regulator Type C-20 (use with non-electric kit)		3-91-05000	Y
	Non-electric Draft Control Assembly		1-10-08013A	
	Spring Handle	Pkg of 3	3-40-00086-3-3	
	Touch Up Paint,Aerosol	Black	3-42-7737	

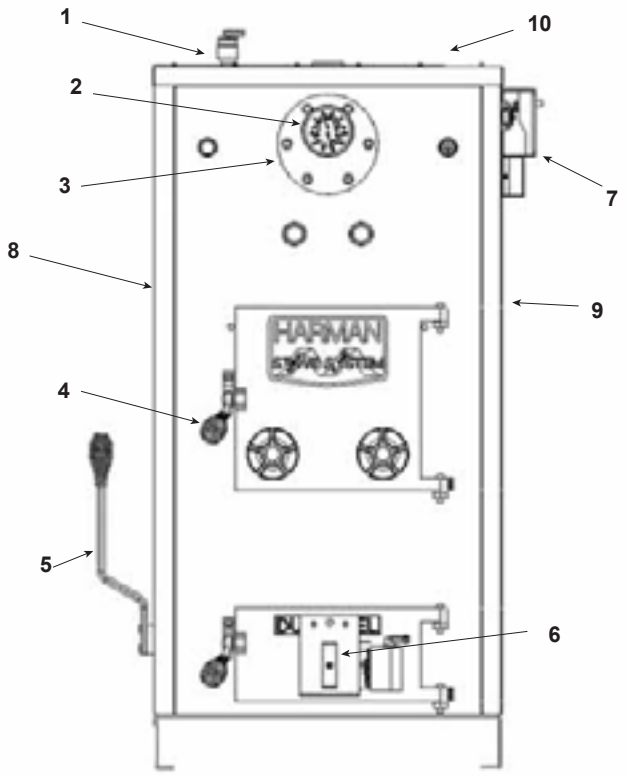
LEGACY STOVES™

Service Parts **SF260**

Wood, Coal fired Boiler Appliance

Beginning Manufacturing Date: N/A
Ending Manufacturing Date: Active

1-70-03236



IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
1	Safety Relief Valve		3-10-77382	**Y**
2	Press/temp Gauge-Rear Mount		3-10-78427	**Y**
3	Stove Water Plate (6 holes, 1 fitting)		1-10-08024	
	Gasket, Boiler Plate		3-10-24758	**Y**
4	Door Handle - Cast	Qty 2 req	4-00-00042	**Y**
	Door Latch	4 Sets	1-00-00036	**Y**
	Draft Control Knob - Cast	Qty 2 req	4-00-00109-1	
	Load Door - Cast		4-00-00195P	
	Flapper Weldment 17-1/2”		1-10-00407	
5	Long Shaker Handle Weldment		1-10-01005	**Y**
	Shaker Bar Weldment 4-11/16”		1-10-02018W	**Y**
	Shaker Block		2-00-01037-1	**Y**
	Shaker Bracket		2-00-01047B	
	Shaker Handle Mount		2-00-01037-2	**Y**
6	Automatic Draft Control Assembly		1-10-03375	**Y**
	Draft Motor Mount Bracket		2-00-01010B	
	Ash Door - Cast		4-00-00200-1D	
	Draft Motor 120v		3-20-45338	**Y**

Additional service parts on following page.

LEGACY STOVES™

Service Parts

SF260

Beginning Manufacturing Date: N/A
Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
7	Aquastat Replacement for White Rodgers	Pre 1199	1-00-03500	Y
	Aquastat Sensor/A350 Control A99BC-25C	Post 1199	3-10-2992225	Y
	Auastat Terminal Block	Post 1199	1-10-03501A	
	Aquastat Sensor Well	Post 1199	3-10-935111	Y
	Controller A350AA-2C	Post 1199	3-10-1350112	Y
	Power Supply Y350R-1C	Post 1199	3-10-935071	Y
	Stage Module S350AA-1C	Post 1199	3-10-7350111	Y
8	Side Jacket w/Hole		2-00-00327-15S	
9	Side Jacket without Hole		2-00-07002-15S	
10	Top Jacket		2-00-08132-15S	
	ADC Cover		2-00-01012P	
	ADC Hinge		3-31-01004	
	Ash Pan		1-10-25027	Y
	Boiler Coil Washer	Pkg of 2	1-00-07007	
	Boiler Electric Back-up for Johnson Controls (option)	Post 1199	1-00-01019	
	Boiler Kit Assembly		1-00-01020	
	Brick 9” x 4-1/2” x 1-1/4” (8 needed)	Pkg of 7	1-00-900450125	Y
	Brick Angles		1-00-01138	
	Set of cut Brick		1-00-00842	Y
	Brick, 9" x 4-1/2" x 2-1/2", (used for Reducer)		3-40-900450250	
	Brick, Full Skid	414 pcs	3-40-900450-414	
	Din Rail End Clamp		3-31-01021	
	Din Rail, 8", (For Mounting Controls)		3-31-01020	
	Domestic Boiler Coil Assembly		1-00-07006	
	Domestic Coil Water Plate (8 holes, 1 fitting, 2 nuts)		1-10-07006	
	Door Pins, 3/8 x 1 7/8	Qty 4 req	4-30-00138B	
	Element Cover (For Back up)		1-10-01008S	
	Flapper Hook	Qty 2 req	2-00-01005B	
	Gasket Glue, 32 oz		3-42-4583	
	Gasket, 1/2” Rope (Load Door & Ash Dppr)	20 Ft	1-00-53500	Y
	Grate 15 in - Cast	Qty 5 req	3-00-00208	Y
	Grate Holder 2 - Cast	Qty 2 req	3-00-00193	Y
	Grate Holder 3 - Cast	Qty 2 req	3-00-00194	Y
	Grate Link 5 - cast		3-00-00205	Y
	Non-electric Boiler Kit (includes regulator & draft control)		1-00-08012	
	Draft Regulator Type C-20 (use with non-electric kit)		3-91-05000	Y
	Non-electric Draft Control Assembly		1-10-08013A	
	Spring Handle	Pkg of 3	3-40-00086-3-3	
	Touch-up Paint, Aerosol		3-42-7737	

Legacy Stoves™ - Advanced Design & Old Fashioned Value.

(Signature of Boxer)

Your premium quality hearth product designed and assembled by the experienced and skilled members at Legacy Stoves™ in Harrisonville, PA USA.

LEGACY STOVES™